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Subject: Laser Display Feasibility Study Monthly Status Report No. 2, Task Order No. 04

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Literature searches are continuing in the areas of optical modulation techniques, scanning techniques, and display-screen materials. The selected approach is to first collect as many references as possible through a formal literature search. The formal search is being conducted by a bibliographer from the S&ID Technical Information Center, under the direction of the S&ID project engineer for the subject program. A copy of each of the references thus disclosed will be obtained and reviewed by engineers assigned to the study program. Information obtained from these papers will be integrated into the study and additional references given in the papers will be investigated for further useful information. Any techniques, materials, etc., which appear to be of direct interest will be followed up whenever possible through direct contact with the originating individual or company.

The initial literature search on optical modulation covers the period 1962 to the present. To date, 140 references have been found. This search will be continued for one or two more weeks, then temporarily dropped.

The initial search on optical scanning techniques has disclosed 47 papers for the 1960 to 1963 period, and will be continued until the period of 1963 to the present has been covered.

The search for papers on display-screen materials has disclosed 454 references for the period of 1960 through 1963, and is continuing for the period of 1963 to the present. The initial search in this area is expected to be completed within about two weeks.

In addition to the literature searches, analytical work has been initiated in the area of optical modulation. Existing analyses of

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the interference modulation technique are being extended and generalized to allow parametric analyses to be conducted. These will result in plots of various interference modulator parameters as functions of other parameters, thus providing a basis for comparison with other modulation techniques. This interference-modulator analysis is expected to be completed and written up in draft form within the week. A similar parametric analysis of the electro-optic modulation technique will be undertaken next.

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